

# **GRAIN TRANSPORTATION REPORT**

Transportation & Marketing, Agricultural Marketing Service United States Department of Agriculture

OCTOBER 22, 2002

TM GRAIN TRANSPORT	Truck	Rail	Barge	Oc	ean
COST INDICATORS				Gulf	PNW
Indicator Value * for 10/16	98		114	109	94
Compared to Last Week	unchanged		up	up	down

\* Indicator: Base Year 2000=100; Cost Data, Weekly Updates include Truck=Diesel, Rail=Nearby Secondary Rail Market; Barge=Spot Illinois River Basis; Quarterly Updates for Ocean Vessel based on Routes to Japan

Oct. 24-25	Ports and Logistics 2002	Johor Bahru, Malaysia	+60 38 023 5352 info@transportevents.com
Oct. 24-26	23 <sup>rd</sup> Annual Int'l Irrigation Show & Conf.	New Orleans, LA	703-536-7080 (tel)
Oct. 27-30	2002 American Trucking Management (ATA) Conference & Exhibition	Orlando, FL	703-838-1700 (tel.) www.trucking.org
Nov. 7-8	MARC 2000: Midwest Area River Coalition Annual Meeting	St. Louis, MO	314-436-7303 (ph) http://www.marc2000.org
Nov. 12-15	International Association of Maritime Economists Annual Meeting and Conference	Panama City, Panama	507-263-6716 (ph) 507-263-6804 (fax)
Nov. 14-15	The Fertilizer Institute Outlook Conference	Arlington, VA	202-962-0490 (ph)
Nov. 16-20	95 <sup>th</sup> Nat'l Industrial Transportation League's (NITL) Annual Meeting/2002 Transcomp Exhibition	Anaheim, CA	703-524-5011 (ph) info@nitl.org
Nov. 19-20	TOC 2002 Americas - The Practical Ports & Terminals Event for the Americas	Miami, FL	Michelle Fisk michelle.fisk@informa.com
Dec. 8-10	Nat'l. Grain and Feed Assoc. (NGFA) 31 <sup>st</sup> Annual Country Elevator Council Meeting, 6 <sup>th</sup> Annual Feed Industry Council Meeting & Trade Show.	St. Louis, MO	202-289-0873 (tel.) ngfa@ngfa.org
Dec. 11-13	American Seed Trade Association (ASTA) $32^{nd}$ Soybean Seed and $57^{th}$ Corn & Sorghum Seed Conference & Seed Expo	Chicago, IL	888-890-7333 (ph) 703-837-8140 (ph)
Jan. 26-31, ' 03	Wheat Industry Conference	Albuquerque, NM	202-547-7800 (ph) wheatworld@wheatworld.org
Feb. 27-Mar. 1	Commodity Classic Trade Show	Charlotte, NC	Beth Musgrove musgrove@ncga.com 314-275-9915 (ph)

Report is prepared by Deen Olowolayemo, Johnny Hill and Hooshang Fazel, Agricultural Economists, Transportation & Marketing, Agricultural Marketing Service, USDA (202) 690-1304. Support provided by Upper Great Plains Transportation Institute, North Dakota State University. This report can be found on the Internet at <a href="www.ams.usda.gov/tmd/grain.htm">www.ams.usda.gov/tmd/grain.htm</a>.or contact Surajudeen.Olowolayemo@usda.gov

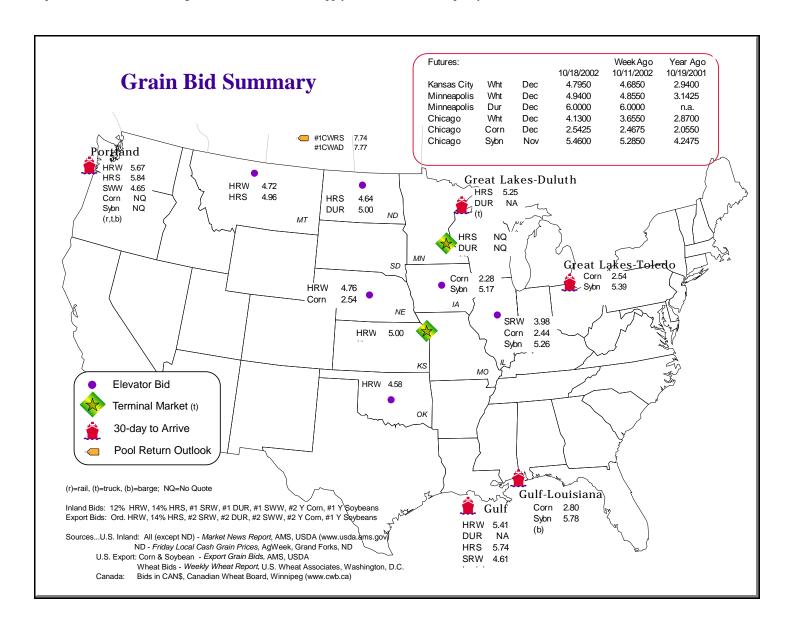
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The Grain Transportation Report is a weekly news source for grain logistics. Detailed data and trend information on five major modes: barge, truck, rail, container, and vessel, provide timely insight into grain transport. The report is offered to policymakers and industry as a tool in day-to-day decision making and longer-term strategic planning for an effective and efficient U.S. grain logistics system.

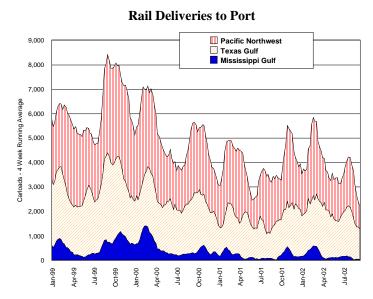
Market Update: U.S. Origins to Export Position Price Spreads Per Bushel						
Commodity	OriginDestination	This week	Last week			
Corn	IL Gulf	-0.36	-0.37			
Corn	NE Gulf	-0.26	-0.21			
Soybean	IA Gulf	-0.61	-0.62			
HRW	KS Gulf	-0.41	-0.38			
HRS	ND Portland	-1.20	-1.26			

The **Grain Bid Summary** illustrates the market relationships for corn, soybeans, and five varieties of wheat among selected origins and destinations. Positive and negative adjustments in the differential between terminal and futures markets, and the relationship to inland market points, are indicators of changes in fundamental market supply and demand. The map may be used to monitor market and time differentials.

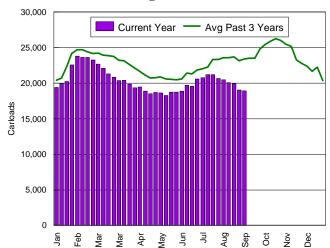


## **RAIL TRANSPORTATION**

Rail Deliveries to Port Carloads							
	Mississippi Gulf*	Texas Gulf	Pacific Northwest	Atlantic & East Gulf	Total		
Week Ending:							
10/2/02	379	469	1,361	78	457		
10/09/02	436	569	3,270	351	787		
YTD 2002	8,412	69,594	76,477	15,861	24,273		
YTD 2001	7,089	61,145	84,941	18,995	26,084		
% of Last Year	119%	114%	90%	84%	93%		
Total 2001	10,022	81,804	111,376	26,604	229,806		
Total 2000	25,767	104,473	128,414	14,816	273,470		
Source: Transportat	ion & Marketing	g/AMS/US	DA; (*) Incom	plete Data			



### **Grain Car Loadings for Class I Railroads**



Railroads originate approximately 40% of U.S. grain shipments. Trends in these loadings are indicative of market conditions and expectations.

Class I Rail Carrier Grain Car Bulletin

Grain Carloads Originated and Grain Service Index

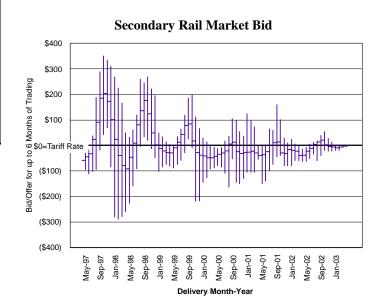
	E	ast	West			Car	ıada	
	CSXT	NS	BNSF	KCS	UP	U.S. Total	CN	CP
10/12/02	3,324	3,758	8,322	452	6,398	22,254	4,064	4,489
This Week Last Year	2,405	3,019	8,893	572	6,638	21,527	5,145	4,813
2002 YTD	110,026	127,203	305,590	21,521	269,423	833,763	157,906	152,561
2001 YTD	118,371	124,056	330,924	19,407	273,069	865,827	200,178	183,275
2001 Total	151,864	163,018	428,603	26,330	347,156	1,116,971	254,982	232,461
2000 Total	147,708	153,905	425,849	26,515	364,785	1,118,762	160,749	239,670

Dec-01	95.5	93.1	100.9	101.0	98.0	97.5

Rail service may be ordered directly from the railroad via **Auction** for guaranteed service or tariff for non-guaranteed service, or through the secondary market. The **Secondary Rail Market** information reflects trade values for service that was originally purchased from the railroad carrier as some form of guaranteed freight. The auction and secondary rail values are indicators of rail service quality and demand/supply.

Secondary Rail Car Market Average Premium/Discount to Tariff, \$/Car - Last Week							
	Delivery Period						
	Aug-02	Sep-02	Oct-02	Nov-02			
BNSF-GF	\$(5)	\$0	\$(2)	\$(3)			
UP-Pool	\$(55)	\$(35)	\$(5)	\$(10)			

Railroad Car 'Auction' Results Average Premium/Discount to Tariff, \$/Car - Last Auction							
Delivery for:	Sep-02	Oct-02	Nov-02				
COT/N. Grain	no bid	no bid	no bid				
COT/S. Grain	no bid	no bid	\$0				
GCAS/Region 2	no bid	no bid	no offer				
GCAS/Region 4	no bid	no bid	no offer				
Source: Transportation & Marketing/AMS/USDA.  (COT=Certificate of Transportation: GCAS=Grain Car Allocation System)							



# **Tariff Rail Rates for Unit Train Shipments**

October 2002

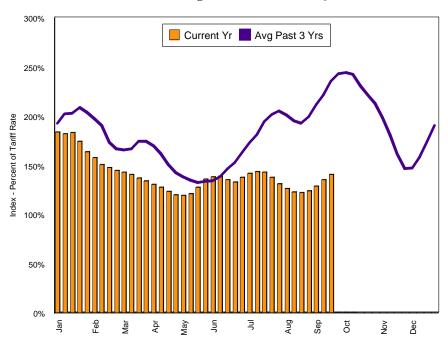
Date Effective	Tariff Item	Commodity	Origin	Destination	Rate Per Car	Rate Per MT	Rate/Per Bushel*
10/07/02	45560	Wheat	Minneapolis, MN	Houston, TX	\$2,050	\$22.60	\$0.62
10/07/02	43521	Wheat	Minneapolis, MN	Portland, OR	\$3,877	\$42.74	\$1.16
10/07/02	46540	Wheat	Kansas City, MO	Houston, TX	\$1,650	\$18.19	\$0.50
10/07/02	43586	Wheat	Kansas City, MO	Portland, OR	\$4,347	\$47.92	\$1.30
10/07/02	43581	Wheat	Omaha, NE	Portland, OR	\$4,005	\$44.15	\$1.20
10/07/02	31005	Corn	Minneapolis, MN	Portland, OR	\$3,050	\$33.62	\$0.85
10/07/02	31035	Corn	Kansas City, MO	Portland, OR	\$2,700	\$29.76	\$0.76
10/07/02	31005	Corn	Omaha, NE	Portland, OR	\$2,850	\$31.42	\$0.80
10/07/02	61110	Soybean	Minneapolis, MN	Portland, OR	\$3,030	\$33.40	\$0.91
10/07/02	61110	Soybean	Omaha, NE	Portland, OR	\$2,780	\$30.64	\$0.83

Source: www.bnsf.com

Approximate load per car = 100 tons: Corn 56 lbs/bu, Wheat & Soybeans 60 lbs/bu

# **BARGE TRANSPORTATION**

### Illinois River Barge Rate Index - Rate Quotes



The Illinois River Barge Rate Index averaged 183% of the Benchmark Tariff Rate between 1999 and 2001, based on weekly market quotes. The Index, along with Rate Quotes and Futures Market bids are indicators of grain transport supply and demand.

Calculating barge rate per ton: Index  $\times$  1976 Tariff Benchmark Rate per Ton

Select applicable index from market quotes included in tables on this page. The 1976 benchmark rates per ton are provided in map below.

BARGE RATE QUOTES: Southbound Barge Freight Index=Percent of Tariff, Based on 1976 Tariff Benchmark Rate							
	10/16/02	10/9/02	Nov '02	Jan '03			
Twin Cities	212	204	190	0			
Mid-Mississippi	215	206	173	0			
Illinois River	206	200	161	178			
St. Louis	175	176	137	123			
Lower Ohio	169	159	156	128			
Cairo-Memphis	174	164	132	116			
Source: Transportation	& Marketing /AM	IS/USDA; nq=	no quote				

### BARGE FUTURES MARKET Southbound Barge Freight Nominal/Cash Basis Values

Index=Percent of Tariff, Based on 1976 Tariff Benchmark Rate

		<b>G</b> 4 4	Rate		
Week ended	River/Region	Contract Period	Futures	Cash	
10/22/02	St. Louis	Aug	n/a	n/a	
		Oct	n/a	205	
		Dec	n/a	125	
		Feb	n/a	128	
		Mar	n/a	128	
	Illinois River	Aug	n/a	n/a	
		Oct	n/a	215	
		Dec	n/a	163	
		Feb	n/a	170	
		Mar	n/a	155	

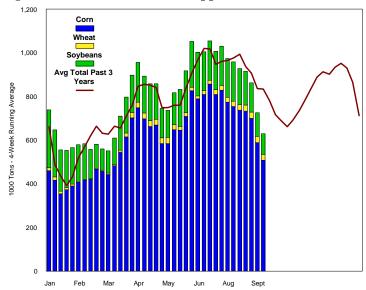
Barge Benchmark Tariff Rates
Est. 1976 - Tariff No. 7

Barge Benchmark Tariff Rates
St. Louis
3.99

Memphis
4.04

Greenville
2.29

### Barge Movements on the Mississippi River (Lock 27)

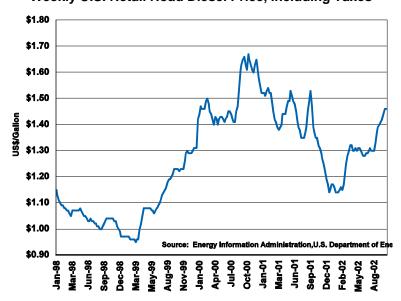


Barge Grain Movements for week ending 10/12/02							
	Corn	<b>Wht</b> 1.000	Sybn Tons	Total			
Mississippi River		*,~~-	1011				
Rock Island, IL (L15)	122	17	162	301			
Winfield, MO (L25)	241	20	291	565			
Alton, IL (L26)	491	39	382	928			
Granite City, IL (L27)	475	35	389	913			
Illinois River (L8)	172	11	108	293			
Ohio River (L52)	26	6	24	69			
Arkansas River (L1)	1	32	10	44			
2002 YTD	27,229	2,151	7,905	38,534			
2001 YTD	25,078	2,169	6,646	35,374			
% of Last Year	109%	99%	119%	109%			
Total 2001	31,878	2,679	10,616	47,091			

YTD and Calendar year total includes Miss/27, Ohio/52 and Ark/1. Source: U.S. Army Corp of Engineers.

### TRUCK TRANSPORTATION

Weekly U.S. Retail Road Diesel Price, Including Taxes



The weekly **Diesel Price** provides a proxy for trends in U.S truck rates. Diesel fuel is a significant expense for truck grain movements, accounting for 37% of the estimated variable cost. **Crude Oil Price** is an indicator in future diesel price trends.

Crude Oil Prices US\$ per Barrel	This Week	Last Week		Average 2001*
Light Sweet Crude (NYMEX)	28.51	28.34		22.06
Brent Crude	26.76	26.26	•	22.96

Source: www.eia.doe.gov; \*U.S. Refiner Crude Acquisition Cost, Composite Domestic & Import

Note: Light Sweet Crude is exchanged on the New York Mercantile Exchange. North Sea oil has a "benchmark" role in crude oil pricing. Brent crude, a blend of North Sea oils, is traded on the International Petroleum Exchange in London

# GRAIN EXPORTS

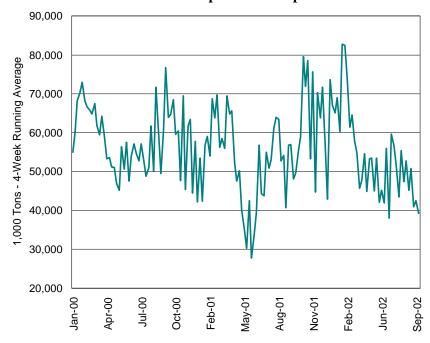
U.S. Export Balances (1,000 Metric Tons)

			V	Vheat			Corn	Soybean	Total
	HRW	SRW	HRS	SWW	DUR	All			
Unshipped Export Balances									
10/10/02	1,693	485	1,675	819	107	4,779	7,066	7,439	19,284
This Week Year Ago	1,174	1,087	868	550	227	3,906	6,944	8,511	19,361
Cumulative Exports-Crop Year									
01/02 YTD	3,197	1,070	2,366	1,187	338	8,158	3,819	1,227	13,204
00/01 YTD	2,889	2,079	1,988	1,158	522	8,636	5,287	17,713	31,636
99/00 Total	9,858	4,710	6,305	5,413	1,232	27,518	37,220	24,516	89,254
98/99 Total	7,387	3,645	7,864	6,105	963	25,965	44,476	24,501	94,942
97/98 Total	9,867	6,792	8,918	6,443	897	32,918	55,769	23,550	112,237

Source: Foreign Agricultural Service YTD-Year-to-Date (www.fas.usda.gov) Crop Year:Wheat=5/31-6/01, Corn & Soybeans=9/01-8/31

Select U.S. Port Regions - Grain Inspections for Export - 1,000 Metric Tons												
	Pac	ific Reg	ion	Mississippi Gulf		Texas Gulf		<u> P</u>	Port Region Total			
	Wheat	Corn	Soybn	Wheat	Corn	Soybn	Wheat	Corn	Soybn	Pacific	Mississippi	Texas
10/17/02	328	24	265	172	740	283	88	22	0	617	1,195	110
2002 YTD	6,923	3,032	1,771	4,399	30,024	11,809	4,864	259	907	11,726	46,233	6,030
2001 YTD	7,686	4,353	1,737	4,952	28,286	11,058	4,455	242	1,103	13,776	44,296	5,799
% of Last Year	70%	50%	104%	65%	85%	66%	70%	55%	90%	66%	77%	72%
2001 Total	10,007	5,877	1,647	6,829	34,991	17,996	6,984	470	1,008	17,530	59,816	8,462
Source: Federal Grain	Source: Federal Grain Inspection Service YTD-Year-to-Date											

# **U.S. Grain Inspected for Export**



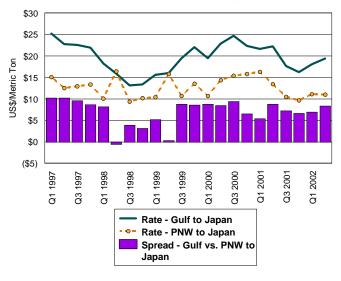
Select Canadian Port Export Inspections 1,000 Metric Tons, Week End Summary									
10/17/02         Wheat         Durum         Barley           Vancouver         318         21         3									
Prince Rupert	366	18							
Prairie Direct	102	58	52						
Thunder Bay	141	94	33						
St. Lawrence	1,659	305	42						
2001/02 YTD	2,586	496	130						
2002/03 YTD	1,310	731	88						
% of Last Year 197% 68% 148%									
Source: Canadian G	rains Commi	ission, Crop Y	ear 8/1- 7/31						

Port Region Ocean Grain Vessels									
		Gulf		Pacific Northwest	Vancouver B.C.				
	<u>In Port</u>	Loaded 7-Days	Due Next 10-Days	In Port	In Port				
10/10/02	43	33	73	14	2				
10/17/02	41	52	72	14	1				
2001									
Range	(1365)	(2864)	(4681)	(118)	(420)				
2001 Avg	36	48	63	9	12				

# Gulf Port Region Grain Vessel Loading Past 7 Days



# **Grain Vessel Rates to Japan**



	Quarterly Ocean Freight Rates Average Rates & Percentage Changes, U.S. Dollars/Metric Ton									
	2002 2 <sup>nd</sup> Qtr	2001	% Change	2002 2 <sup>nd</sup> Qtr	2001	% Change				
Gulf to				Pacific NW to						
Japan	\$19.43	\$22.31	-13%	Japan \$11.03	\$13.05	-18%				
Mexico	\$46.92	\$17.84	63%							
Venezuela		\$14.76	-							
N. Europe	\$13.58	\$16.93	-20%	Argentina to						
N. Africa	\$15.84	\$19.52	-19%	Med. Sea \$16.98	\$26.08	-35%				
Med. Sea	\$12.62	\$15.80	-20%	N. Europe \$17.16	\$19.68	-13%				
Black Sea		\$21.16	-	Japan \$25.10	\$26.62	-6%				

Source: Transportation & Marketing/AMS/USDA; (\*) rates shown are for metric ton (2,204.62 lbs.=one metric ton)

Ocean Freight Rates for Select Shipments - week ending 10/19/02								
Export Region	Import Region	Grain	Month	Volume Loaded (Tons)	Freight Rate (\$Ton)			
U.S. Gulf	Mexico	Corn	Oct 20/25	30,000	\$7.50			
U.S. Gulf	Egypt	Heavy Grains	Oct 16/20	60,000	\$12.60			
U.S. Gulf	Japan	Heavy Grain	Nov 11/22	54,000	\$24.00			
Paranagua (Brazil)	Tunisia	Corn	Oct 17/30	25,000	\$22.00			
Durban (S. Africa)	Japan	Heavy Grains	Oct 20/30	20,000	\$27.00			
Bin Qasim (Pakistan)	Peru	Wheat	Oct 22/26	35,000	\$20.25			
Source: Maritime Research Inc	.; rates shown are for metric to	on (2,204.62 lbs.=one metric	ton), F.O.B., except w	here otherwise indicated; op	e=option			

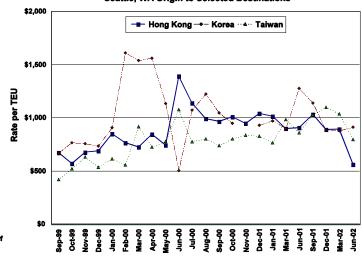
# CONTAINER

### **Container Ocean Freight Rates**

Monthly Weighted Averages Based on Shipping Line Monthly Mkt. Share Source: Transportation & Marketing/AMS/USDA

# Sattle, WA Origin to Tokyo, Japan \$1,500 \$1,000

### Container Rates - Feed Grain Seattle, WA Origin to Selected Destinations



Approximately 420,000 MT of grain and oilseed exports were marketed via container in 2001. This volume increased 26% compared to 1997.